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cons.aa	G G G V	A K	E
htGFBR-II	LDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFPYDHYASWKDRKDI	FSDINLGHENILQF	
mActR-IIB	LLEIKARGRFQCVWKAQLN-----	DFVAVKIKPLQDKQSWQSEREIFSTPGMCHENLLQF	
mActR-II	LLEVKARGRFQCVWKAQLN-----	EYVAVKIFPIQDKQSWQNEYEVYSIPGMCHENILQF	
daf-1	LKRVGSGRFGNVSRGDYRG-----	EAVAVKVFNAIDEPAFHKEIEIFETRMRLRHPNVLRY	
subdomains	I	II	III IV

htGFBR-II	LTAERKTELKQYWLITAFHAKGNLQEYLTRHVISWEDLRNVGSSLARGLSHLSDHTP-C
mActR-IIB	IAAEKRGSNLEVELWLITAFHDKGSLIDYLGNIITWNECHVAETMSRGI SYLHEDVPWCR
mActR-II	IGAERKGTSDVDLWLITAFHEKGSLSDFLKVNVSWNECHIAETMARGLAYLHEDI PGLK
daf-1	IGSDRVDTGFTVELWLVIETHPSGSLHDFLENTVNIETTYNLMRSTASGLAFLHNQIGGSK
subdomains	V VI-A

cons.aa	DLK N	DFG
htGFBR-II	-GRPKPIVHRDLKSSNLLVKNDLTCCLCDPGLSLRL---	GPYSSVDDLANSQGVGTARYMAP
mActR-IIB	GECHKPSIAHRDFKSNVLLKSDLTAVLADPGLAVRF---	EPGKPPGD--THGQVGTTRYMAP
mActR-II	-DGHKPAISHRDIKSNVLLKQNLTAADIADPGLALKF---	EAGKSAGD--THGQVGTTRYMAP
daf-1	-ESNKPAMAHRDIKSNIMYKNDLTCAIGDLGLSLSKPEDAASDI IAN--	ENYKCGTVRYLAP
subdomains	VI-B	VII VIII

Fig. 1

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a.a C C E G N M C
5' GCGGATCCTGTTGTGAAGGNAATATGTG 3' Fig. 2A
BAMHI C C G C

a.a V A V K I F
5' GCGGATCCGTCGCAGTCAAAATTTT 3' Fig. 2B
BamHI G C G G C
T T T A

a.a R D I K S K N
5' GCGGATCCGCGATATTAAAAGCAA 3' Fig. 2C
BAMHI A C C GTCT
G A

a.a E P A M Y
5' CGGAATTCTGGTGCCATATA Fig. 2D
EcoRI G G G
A A

[illegible]

Fig. 3

11

Y

vib

VIA

Fig. 3 contd.

K N L T A C I A D F G L A L K F E A G K S A G G D - - T H G Q V G T R R Y M A P E V L E G A C T R - I I
 K S D L T A V L A D F G L A V R F E P G K P P S V D D L A P N S H P R V G T K R Y M A P E V L E G A C T R - I I B
 K N G T C C I A D L G L A V R H D S A T D T I D I A G N M P R V G T K R Y M A P E V L E S T B R - I I
 K S M L Q C C I A D L G L A V M H S Q G S D Y L D I G N M P R V G T K R Y M A P E V L D T B R - I / A L K - S
 K K N G Q C C I A D L G L A V M H S Q S T N E Q L D V G N M P R V G T K R Y M A P E V L D E A L K - 1
 K K N G S C C I A D L G L A V K F N S D T N E V D I P P M T R V G T K R Y M A P E V L D E A L K - 2
 K K N G M C C I A D L G L A V R H D A V T D T I D I A P P M T R V G T K R Y M A P E V L D E A L K - 3
 K K N G T C C I A D L G L A V K F I S D T N E V D I P P M T R V G T K R Y M A P E V L D E A L K - 4
 K K N G T C C I A D L G L A V K F I S D T N E V D I P P M T R V G T K R Y M A P E V L D E A L K - 6

VII

VIII

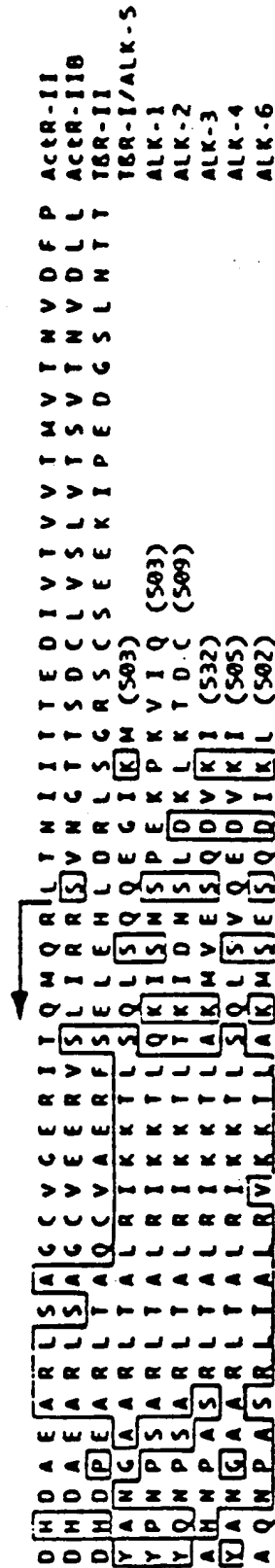
A I M F Q R - D A F L R I I D M Y A M G L V L W E L A S R C T A A D G P V D E Y M L P F E E A C T R - I I
 A I M F Q R - Q A F L R I I D M Y A M G L V L W E L V S R C K A A V - G E V D E Y M L P F E E A C T R - I I B
 R M M L E N A E S F K R A D I Y A M G L V L W E I A R R C S I V - G G I V E D Y R P P F Y D T B R - I I
 S I M L K H F E S F K R A D I Y A M G L V L W E I A R R C S I V - G G I V E D Y R P P F Y D T B R - I / A L K - S
 Q I R T D C F E S Y K R V D I Y A M G L V L W E I A R R C S I V - G G I V E D Y R P P F Y D A L K - 1
 T I Q V D C F E S Y K R V D I Y A M G L V L W E I A R R C S I V - G G I V E D Y R P P F Y D A L K - 2
 S L M K N H F Q P Y I M A D I Y S F G L I I W E M A R R C I T - G G I V E E Y Q L P Y N A L K - 3
 T I M K N H F Q S F K C A D I Y A L G L V Y W E I A R R C M S - G G V M E E Y Q L P Y D A L K - 4
 S L M R N H F Q S Y I M A D M Y S F G L I I W E I A R R C V S - G G I V E E Y Q L P Y M D A L K - 6

IX

X

E I G Q H P S L E D M Q E V V V M K K K R P P V L R D Y W Q K H A G M A M L C E T I E E C W A C T R - I I
 E I G Q H P S L E E L Q E Y V V V M K K K R P P T I K D H M L M H Q C I Q M V C E I L T E C W A C T R - I I B
 K V R E H P C S L E E L Q E Y V V V M K K K R P P T I K D H M L M H Q C I Q M V C E I L T E C W T B R - I I
 L V P S O P S S V E E M K K V V V C V D Q Q R P P T I P N R R L A A D P V L S G L A Q M M R E C W T B R - I / A L K - S
 V V P P M D P S S F E D M K K V V V C V D Q Q R P P T I P N R R L A A D P V L S G L A Q M M R E C W A L K - 1
 V V P S O P S S F E D M K K V V V C V D Q Q R P P T I P N R R L A A D P V L S G L A Q M M R E C W A L K - 2
 M V P S O P S S F E D M K K V V V C V D Q Q R P P T I P N R R L A A D P V L S G L A Q M M R E C W A L K - 3
 L V P S O P S S F E D M K K V V V C V D Q Q R P P T I P N R R L A A D P V L S G L A Q M M R E C W A L K - 4
 L V P S O P S S F E D M K K V V V C V D Q Q R P P T I P N R R L A A D P V L S G L A Q M M R E C W A L K - 6

Fig. 3 contd.



XI

P K E S S L (S13) A C T R - I I
 P K E S S I (S36) A C T R - I I B
 K (S67) T R R - I I

Fig. 3 contd.

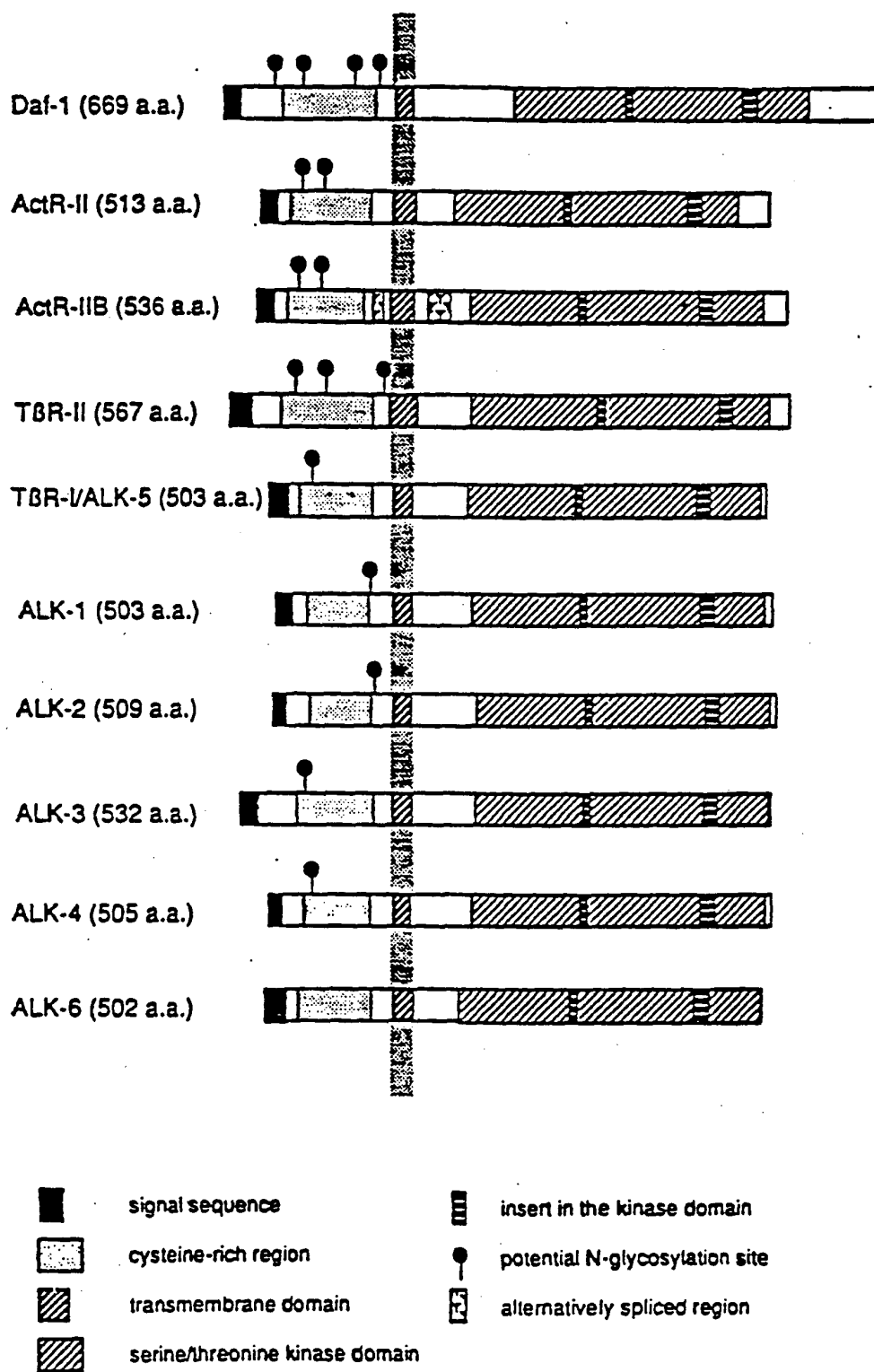


Fig. 4

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[illegible]

Fig. 5

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ALK-2	ALK-3	ALK-4	ALK-5	ActR-II	ActR-IIB	TBR-II	daf-1	
79	60	61	63	40	40	37	39	ALK-1
	63	64	65	41	39	37	39	ALK-2
		63	65	41	38	37	39	ALK-3
			90	41	40	39	42	ALK-4
				42	40	41	43	ALK-5
					78	48	35	ActR-II
						47	32	ActR-IIB
							34	TBR-II

Fig. 6

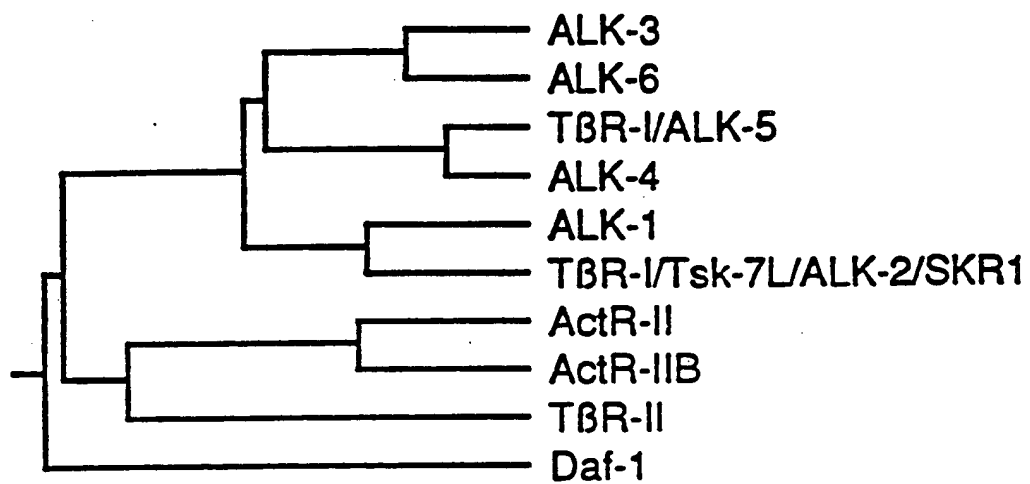


Fig. 7